

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

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|--|--|---|
| Applicant's or agent's file reference P35650-P0 | FOR FURTHER ACTION | See item 4 below |
| International application No. PCT/JP2004/016238 | International filing date (<i>day/month/year</i>) 01 November 2004 (01.11.2004) | Priority date (<i>day/month/year</i>) 31 October 2003 (31.10.2003) |
| International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237 | | |
| Applicant MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD. | | |

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 *bis*.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the report |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

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|---|---|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No. +41 22 338 82 70 | Date of issuance of this report 24 July 2006 (24.07.2006) Authorized officer <div style="text-align: center; font-weight: bold; font-size: 1.2em;">Yoshiko Kuwahara</div> e-mail: pt07@wipo.int |
|---|---|

PATENT COOPERATION TREATY

TRANSLATION

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing
(day/month/year)

Applicant's or agent's file reference

P35650-P0

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2004/016238

International filing date (day/month/year)

01.11.2004

Priority date (day/month/year)

31.10.2003

International Patent Classification (IPC) or both national classification and IPC

Applicant

MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD.

1. This opinion contains indications relating to the following items:

- | | | |
|-------------------------------------|--------------|--|
| <input checked="" type="checkbox"/> | Box No. I | Basis of the opinion |
| <input type="checkbox"/> | Box No. II | Priority |
| <input type="checkbox"/> | Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> | Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> | Box No. V | Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> | Box No. VI | Certain documents cited |
| <input type="checkbox"/> | Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> | Box No. VIII | Certain observations on the international application |

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/016238

Box No. I

Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language
_____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/JP2004/016238

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|---------------|-----|
| Novelty (N) | Claims | 3-6, 8-11 | YES |
| | Claims | 1,2, 7, 12-16 | NO |
| Inventive step (IS) | Claims | | YES |
| | Claims | 1-16 | NO |
| Industrial applicability (IA) | Claims | 1-16 | YES |
| | Claims | | NO |

2. Citations and explanations:

Document 1: JP 2002-269744 A (Matsushita Electric Industrial Co., Ltd.)

20 September 2002, paragraphs 0024-0032, Fig. 1 (Family: none)

Document 2: JP 2003-141823 A (Matsushita Electric Industrial Co., Ltd.)

16 May 2003, paragraphs 0036-0081 and 0175, all drawings

& US 2003/67998 A1

Document 3: WO 2002/089123 A1 (Matsushita Electric Industrial Co., Ltd.)

07 November 2002, page 14, line 10 to page 16, line 6, page 28, lines 15-25, and page 96, line 1 to page 98, line 14, Figs. 9 and 10

& US 2003/151994 A1

The inventions relating to claims 1, 2, 7 and 12-16 are described in document 1 cited in the ISR (paragraphs 0024-0032, Fig. 1); therefore, they do not appear to be novel or involve an inventive step. In claim 7, the point that a plurality of recording conditions are provided with priority to be selected should be naturally considered by a party skilled in the art because alienation in claim 1 can be the same under some of the recording conditions.

The inventions relating to claims 3-6 do not appear to involve an inventive step based on document 2 cited in the ISR (paragraphs 0036-0081 and 0175).

Alternative to an error rate described in document 1, adopting a criterion based on a plurality of values indicating reliability of maximum decoding results described in document 2 to select one of a plurality of recording conditions would be easy for a party skilled in the art.

The inventions relating to claims 8-11 do not appear to involve an inventive step based on document 1, and document 3 cited in the ISR (page 14, line 10 to page 16, line 6, page 28, lines 15-25, and page 96, line 1 to page 98, Figs. 9 and 10).

Alternative to determining a laser light pulse width in accordance with the error rate described in document 1, determining a recording strategy including a 3T mark that is the shortest mark and 4T mark that is the second shortest mark described in document 3 to perform recording under one of a plurality of recording conditions would be easy for a party skilled in the art.

In addition, document 3 describes recording record management information including the recording strategy at time of manufacturing an optical disk; therefore, in document 1 as well, applying such technology would be easy for a party skilled in the art.